

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number  
**WO 2005/038043 A2**

(51) International Patent Classification<sup>7</sup>: **C12Q 1/00**

(21) International Application Number:  
**PCT/US2004/034010**

(22) International Filing Date: 14 October 2004 (14.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/510,916 14 October 2003 (14.10.2003) US

(71) Applicant (for all designated States except US): **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS [US/US]**; 352 Henry Administration Building, 506 Wright, Urbana, IL 61801 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HERGEN-ROTHER, Paul, J. [US/US]**; 2607 Wedgewood Drive, Champaign, IL 61822 (US). **PUTT, Karson, S. [US/US]**; 1355 N. Lincoln Avenue, Apt. 1068, Urbana, IL 61801 (US).

(74) Agent: **RAUCH, Paul, E.**; Evan Law Group LLC, 566 West Adams, Suite 350, Chicago, IL 60661 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

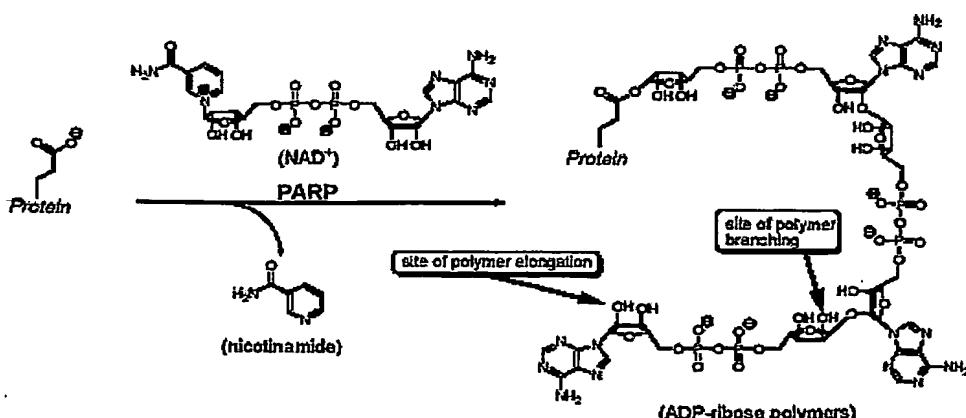
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF DETECTING POLY (ADP-RIBOSE) POLYMERASE AND OTHER NAD<sup>+</sup>UTILIZING ENZYMES



(57) Abstract: Methods for detecting poly (ADP-ribose) polymerase and other NAD<sup>+</sup>utilizing enzymes.

WO 2005/038043 A2